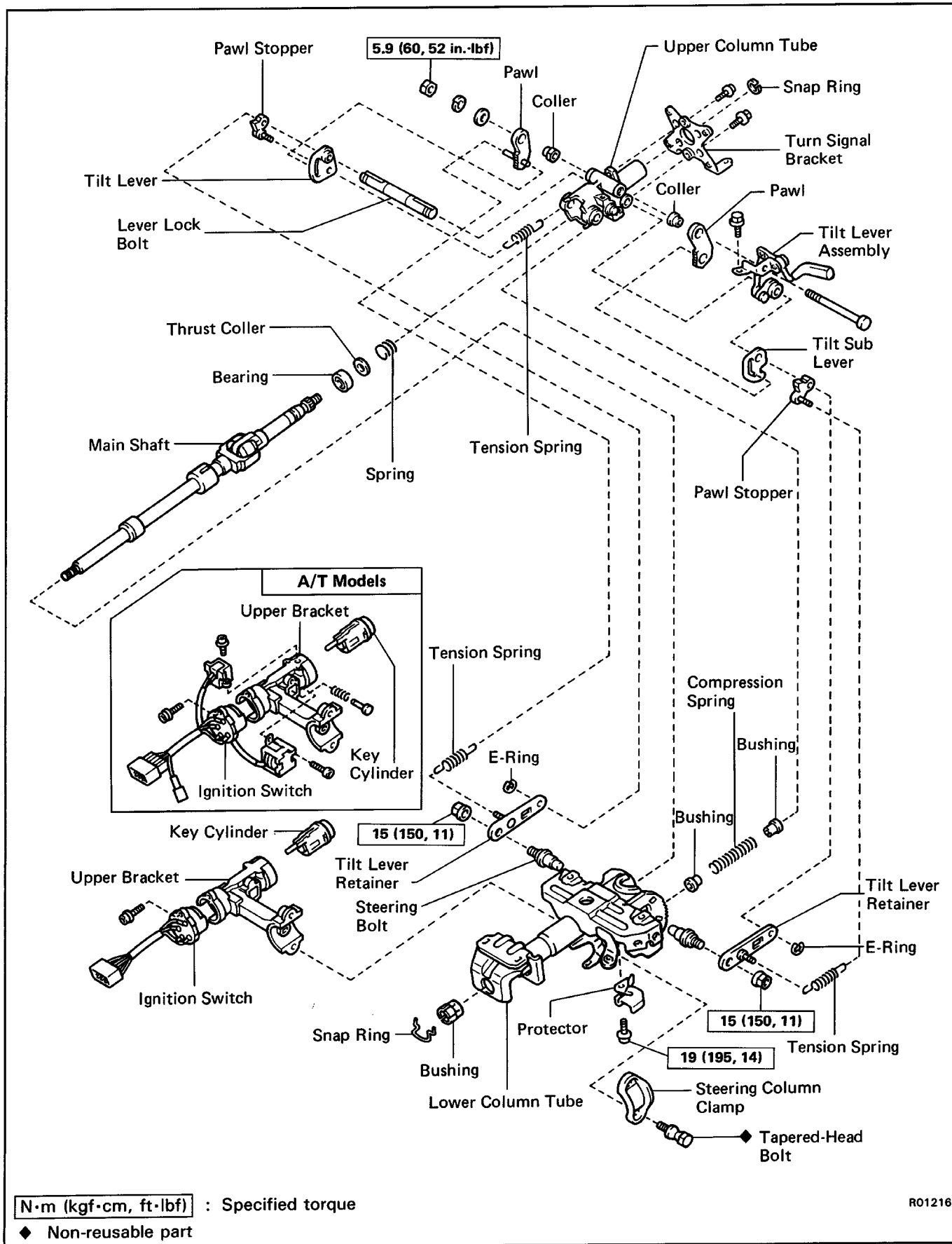
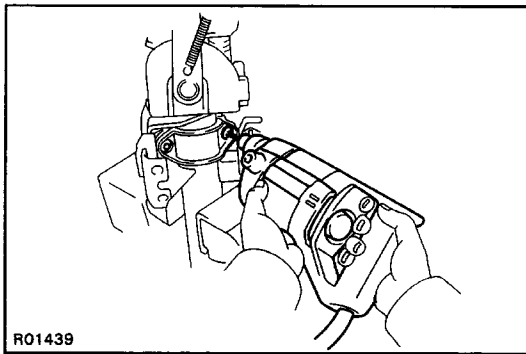


# Tilt Steering Column COMPONENTS



**N·m (kgf·cm, ft·lbf)** : Specified torque

◆ Non-reusable part



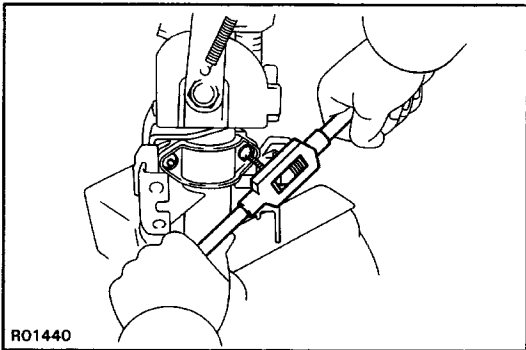
R01439

## DISASSEMBLY OF STEERING COLUMN

(See page [SR-9](#))

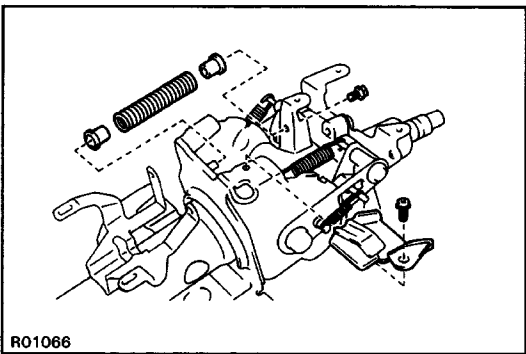
### 1. REMOVE UPPER BRACKET

- (a) Using a centering punch, mark the center of the tapered-head bolt.
- (b) Using a 3 – 4 mm (0.12 – 0.16 in.) drill, drill into the tapered-head bolt.



R01440

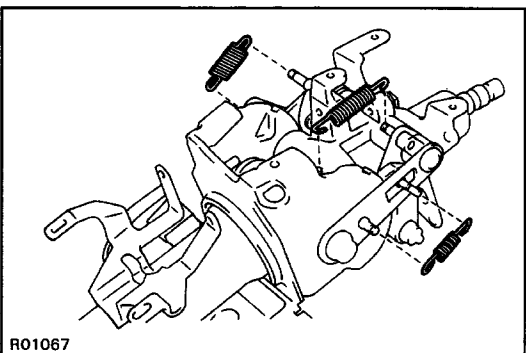
- (c) Using a screw extractor, remove the tapered-head bolt.
- (d) Remove the two bolts, and separate the upper bracket and the column tube.



R01066

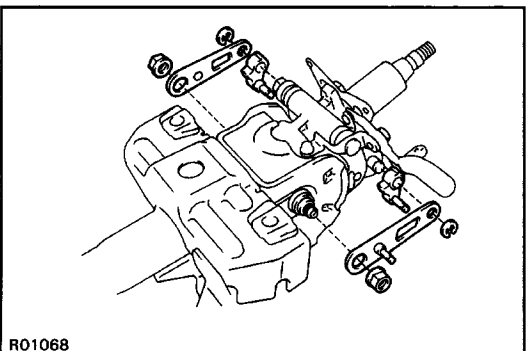
### 2. REMOVE COMPRESSION SPRING AND TENSION SPRING

- (a) Remove the bolt with the compression spring.
- (b) Remove the bushings from the spring.



R01067

### 3. REMOVE THREE TENSION SPRINGS

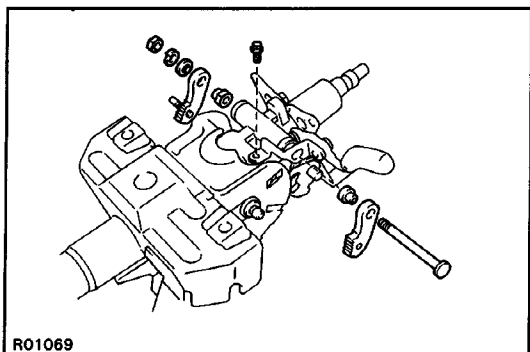


R01068

### 4. REMOVE TWO TILT LEVER RETAINERS

- (a) Remove the E-rings from the retainers.
- (b) Remove the retainers with the nuts.

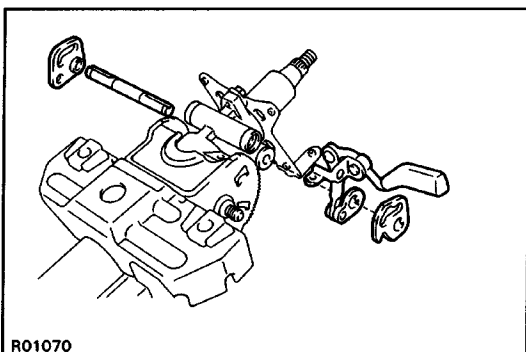
### 5. REMOVE TWO PAWL STOPPERS



R01069

**6. REMOVE TWO TILT PAWLS**

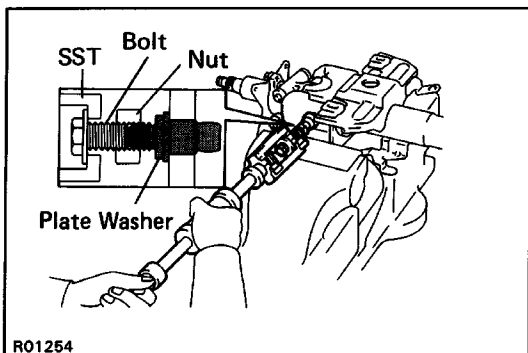
- (a) Remove the nut and bolt.
- (b) Remove the two pawls with the collars.



R01070

**7. REMOVE TILT LEVER ASSEMBLY, TILT LEVER, TILT SUB LEVER AND LEVER LOCK BOLT**

Remove one screw and tilt lever assembly.



R01254

**8. REMOVE UPPER COLUMN TUBE**

- (a) Set SST, the nut (10 mm nominal diameter, 1.25 mm pitch), plate washer (36 mm outer diameter) and bolt (10 mm nominal diameter, 1.25 mm pitch, 50 mm length) as shown. And then remove the two bolts.

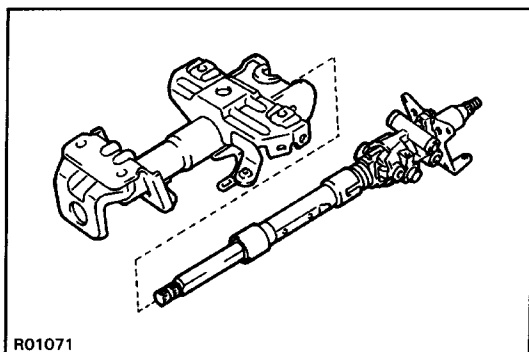
SST 09910-00015 (09911-00011, 09912-00010)

(Reference) Nut 90170-10004

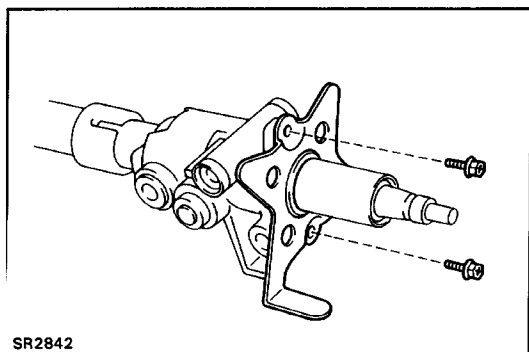
Plate washer 90201-10201

Bolt 91111-51050

- (b) Remove the upper column tube from the lower column tube.
- (c) Remove the stopper.

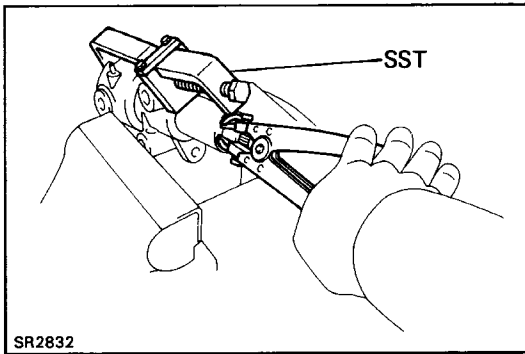


R01071



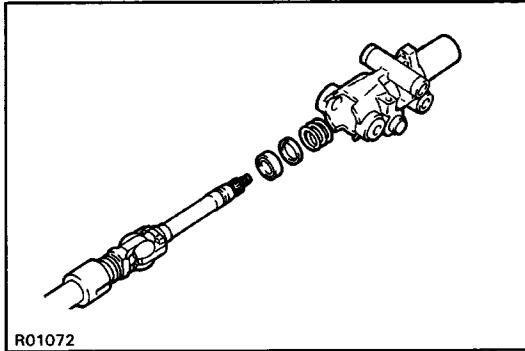
SR2842

**9. REMOVE TURN SIGNAL BRACKET**

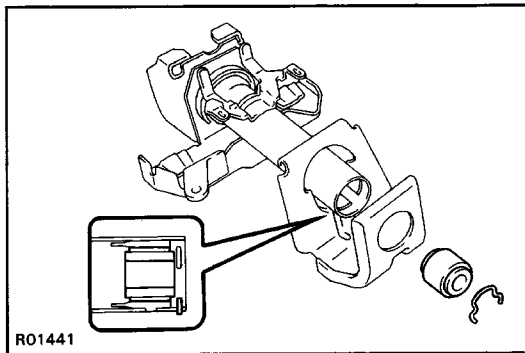


### 10. REMOVE MAIN SHAFT

- (a) Using SST to hold the main shaft, remove the snap ring with snap ring pliers.  
SST 09950-20017

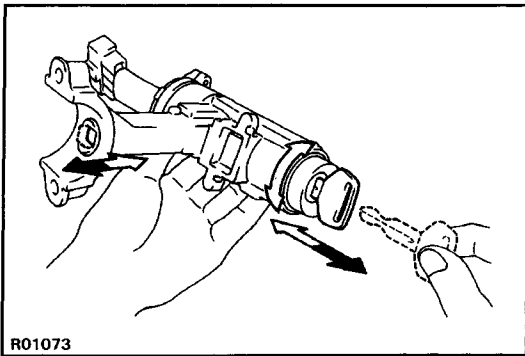


- (b) Remove the main shaft from the column tube.  
(c) Remove the spring, thrust collar and bearing.



### 11. REMOVE MAIN SHAFT COLLAR

- (a) Remove the snap ring from the lower column tube.  
(b) Remove the main shaft collar.

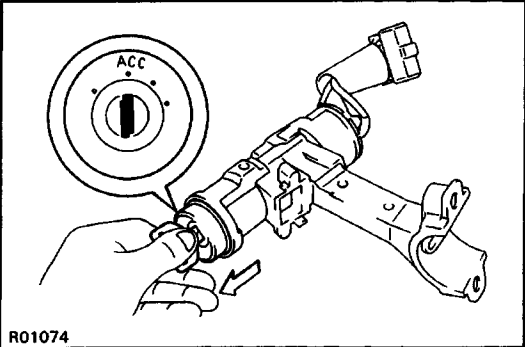


R01073

## INSPECTION AND REPLACEMENT OF STEERING COLUMN

### 1. INSPECT KEY CYLINDER

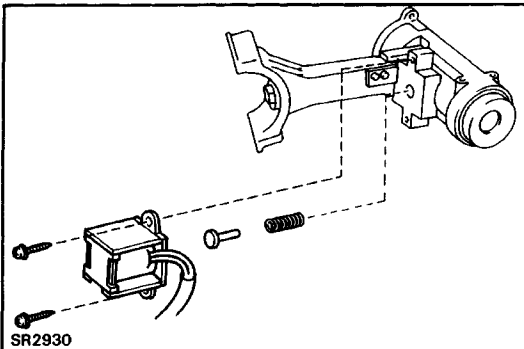
Check that the steering lock mechanism operates properly.



R01074

### 2. IF NECESSARY, REPLACE KEY CYLINDER

- (a) Place the ignition key at the ACC position.
- (b) Push down the stop key with a thin rod, and pull out the key cylinder.
- (c) Make sure that the ignition key is at the ACC position.
- (d) Install a new key cylinder.



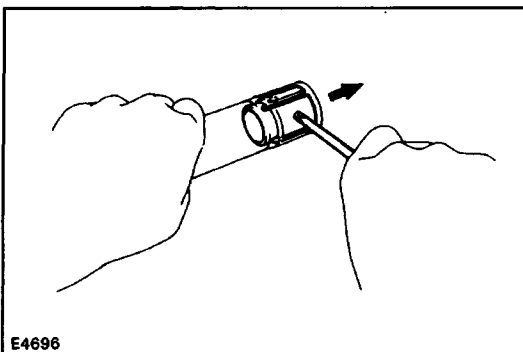
SR2930

### 3. INSPECT KEY INTERLOCK SOLENOID

(See page [AT-214](#))

### 4. IF NECESSARY, REPLACE KEY INTERLOCK SOLENOID

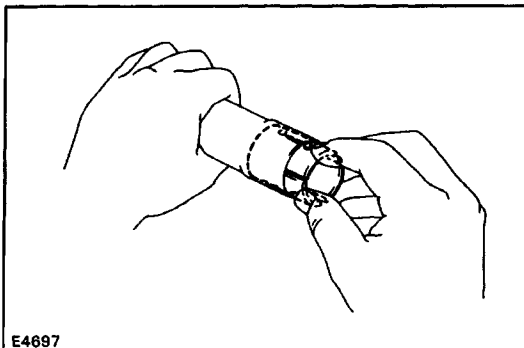
- (a) Remove the two screws.
- (b) Remove the solenoid, spring and lock pin.
- (e) Install a new solenoid with the spring and lock pin, and install the two screws.



E4696

### 5. IF NECESSARY, REPLACE MAIN SHAFT BUSHING

- (a) Using a screwdriver, remove the bushing.



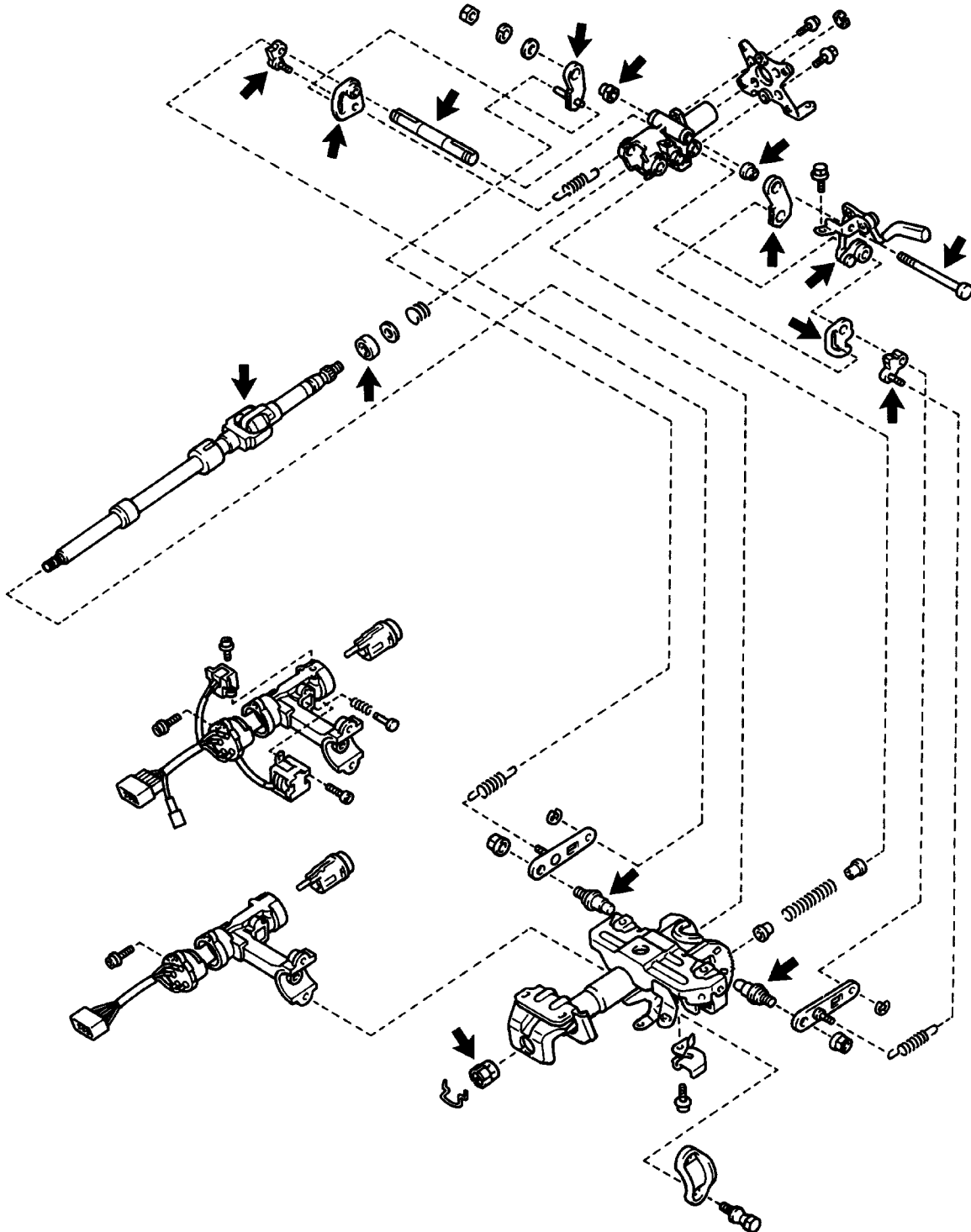
E4697

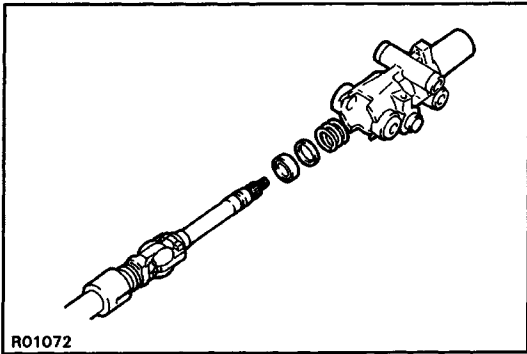
- (b) Align the holes of the tube and the projections of a new bushing, and install the bushing in the column tube.

# ASSEMBLY OF TILT STEERING COLUMN

(See page [SR-9](#))

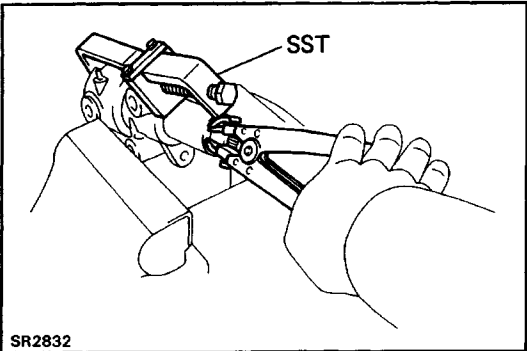
1. COAT MOLYBDENUM DISULPHID LITHIUM BASE GREASE ON FOLLOWING PARTS:





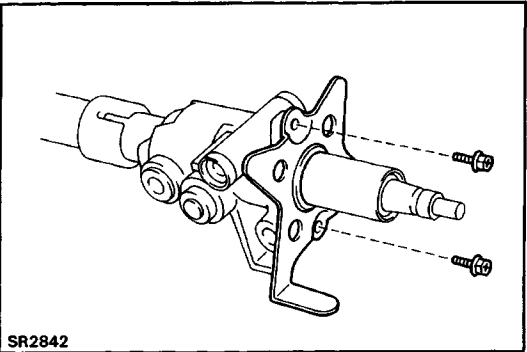
## 2. INSTALL MAIN SHAFT

(a) Install the main shaft with the bearing, collar and spring.



(b) Using SST to hold the main shaft, install the snap ring with snap ring pliers.

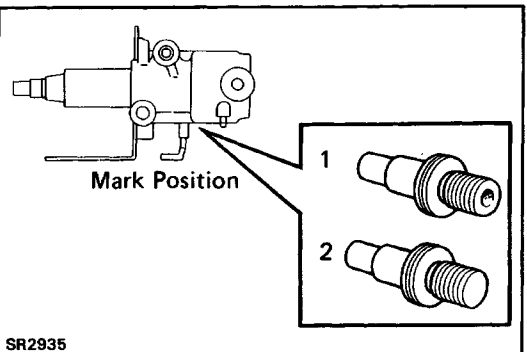
SST 09950-20017



## 3. INSTALL TURN SIGNAL BRACKET

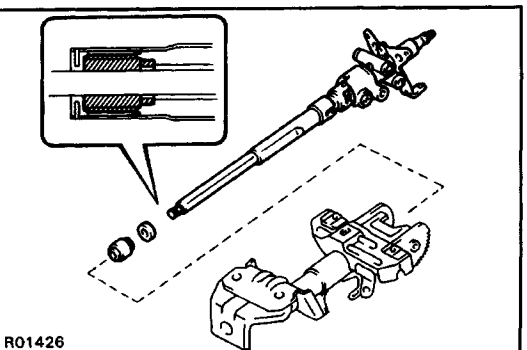
Install the two bolts.

Torque: 7.8 N-m (80 kgf-cm, 69in.-lbf)



## 4. SELECT STEERING BOLT AND UPPER COLUMN TUBE

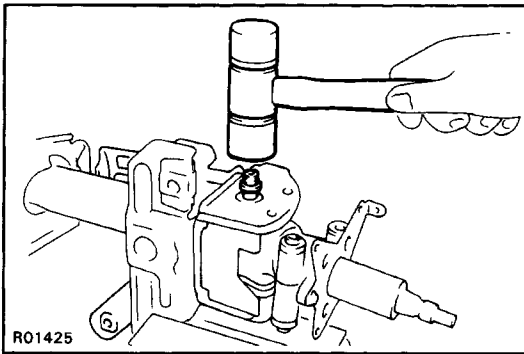
Select the bolt with center hole when the upper column tube mark is 1, and select the bolt without hole when the mark is 2.



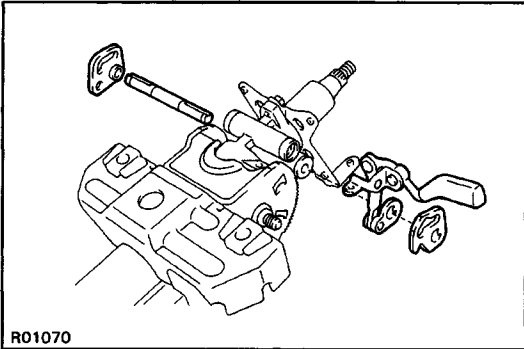
## 5. INSTALL MAIN SHAFT WITH UPPER COLUMN TUBE

(a) Install the stopper and main shaft collar to the main shaft as shown.

(b) Install the main shaft to the lower column tube.

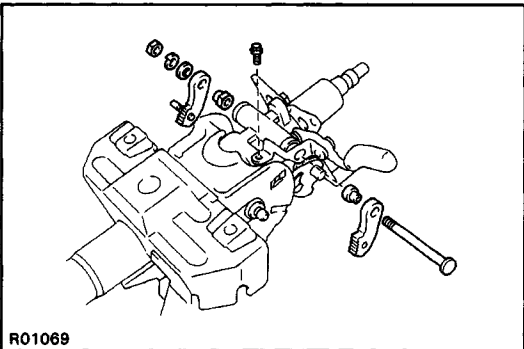


(c) Using a plastic hammer, drive in the steering bolts.



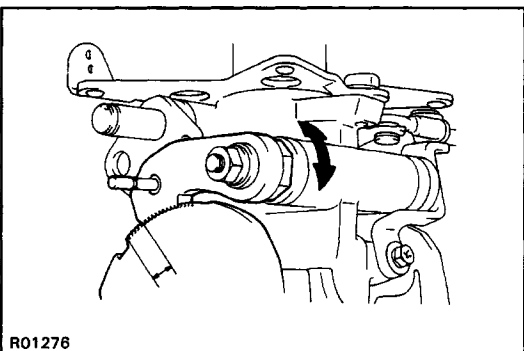
### INSTALL TILT LEVER LOCK BOLT, TILT LEVER ASSEMBLY, TILT LEVER AND TILT SUB LEVER

- (a) Install the tilt lever lock bolt to the upper column tube.
- (b) Install the tilt lever assembly with the screw.
- (c) Install the tilt lever and the tilt sub lever.



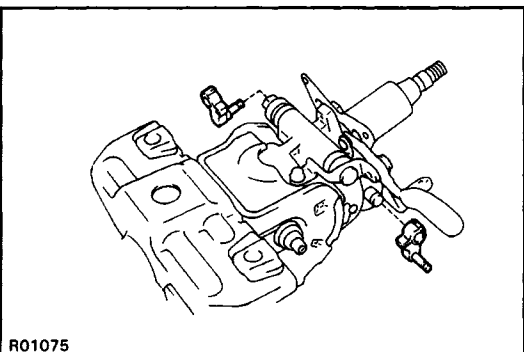
### INSTALL TWO TILT PAWLS

Temporarily install the tilt pawls.



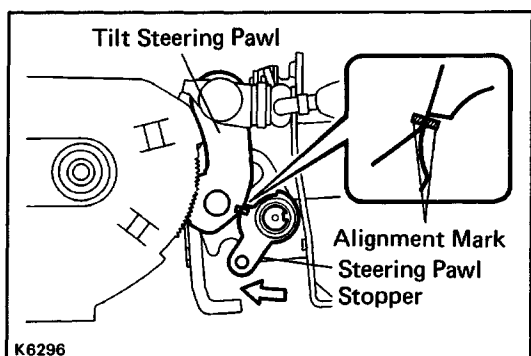
### 8. ENGAGE AND ADJUST TILT PAWL

- (a) Engage the tilt sub lever side pawl to the center of the ratchet.
- (b) While turning the tilt lever side collar, engage the tilt lever side pawl to the ratchet completely.
- (c) Tighten the nut.  
Torque: 5.9 N-m (60 kgf-cm, 52 in.-lbf)



### 9. INSTALL TWO TILT PAWL STOPPERS



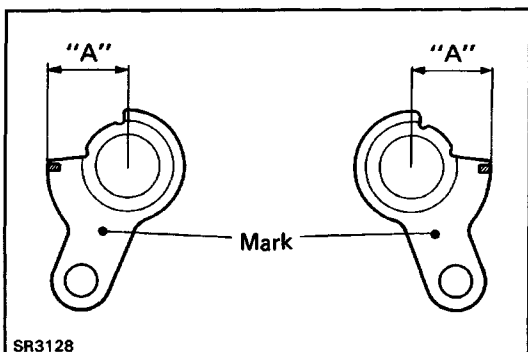


## 10. SELECT STEERING PAWL STOPPERS FOR BOTH SIDES

- With the steering lock pawl and the ratchet engaged, select and install two tilt steering pawl stoppers.
- Check that the alignment marks on the stopper and pawl align when the stopper is rotated to the pawl side.
- If the alignment marks do not align, select tilt steering pawl stoppers according to the following table.

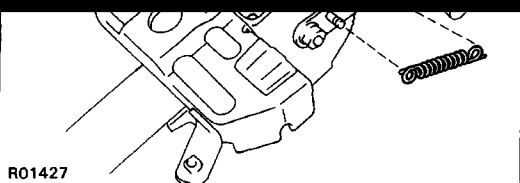
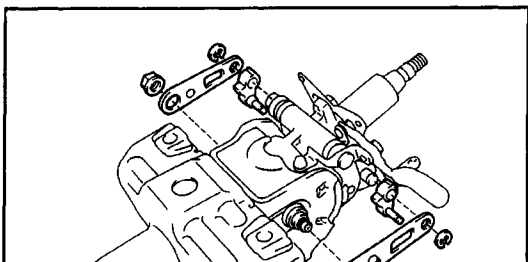
Tilt lever side	Tilt sub lever side	Dimension "A" mm (in.)
1	A	12.65 – 12.75 (0.4980 – 0.5020)
2	B	12.55 – 12.65 (0.4941 – 0.4980)
3	C	12.45 – 12.55 (0.4902 – 0.4941)
4	D	12.35 – 12.45 (0.4862 – 0.4902)
5	E	12.25 – 12.35 (0.4823 – 0.4862)

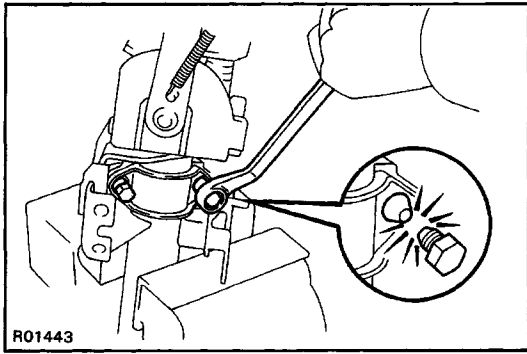
- After selecting the stoppers, check that on both sides the pawl and ratchet are fully engaged.



## 11. INSTALL TWO TILT LEVER RETAINERS

- Install the two tilt lever retainers and torque the nuts.  
**Torque: 15 N-m (1150 kgf -cm, 11 ft-lbf)**
- Install the E-rings.



**14. INSTALL UPPER COLUMN BRACKET**

- (a) Install the upper column bracket with new two tapered-head bolts.
- (b) Tighten the tapered-head bolts until the bolt heads break off.

**15. CHECK OPERATION OF TILT STEERING LEVER AND SUPPORT**

- (a) Check that there is no axial play at the end of the main shaft.
- (b) with the main shaft in the neutral position, raise the tilt lever and check that the main shaft rises to the uppermost position.
- (c) Lower the main shaft, and check that it locks in the lowermost position.